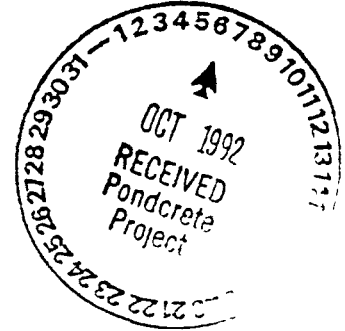




Environmental Technologies Group
ROCKY FLATS SOLARPOND/PONDCRETE PROJECT
452 BURBANK STREET
EG&G BUILDING 025
BROOMFIELD COLORADO 80020
(303) 460-1573
FAX (303) 469-0544

October 5, 1992



Mr. Edward M. Lee, Jr.
Technical Representative
EG&G Rocky Flats, Inc.
P. O. Box 464
Building 080
Golden, Colorado 80402-0464

Subject. Rocky Flats Plant Solar Evaporation Ponds Stabilization Project
[WBS 431 POND SLUDGE PROCESS TRAIN - DESIGN CRITERIA - HNUS ROCKY
FLATS] ADDITIONAL INFORMATION ON WASH UP STATION
RF-HED-92-0648

Dear Mr. Lee:

During the week of October 2, 1992 additional technical questions have been raised on the proposed wash up station. The attached memo summarizes conversations held between Messrs L. Collins and R. Rodrigue on the subject.

I need approval to start the installation of the containment of the wash station early this week. We have looked at a significant number of methodologies for washing the system and conclude that this method will minimize the number of halfcrates of non-spec material produced. This method could produce up to 400 less crates than earlier methods under consideration.

In the event that further questions arise, please advise

Sincerely,

HALLIBURTON NUS ENVIRONMENTAL
CORPORATION

Ted A. Bittner
Project Manager

TAB/jg

Enclosures

cc: J DePriest
R Rodrigue
J. Zak

AUTULEE9
RF HED-92-0648

6-0010-00015.

ADMINISTRATIVE

ADMINISTRATIVE

technologies and services for a cleaner and safer world

DOCUMENT CLASSIFICATION
REVIEW NAWER PER
CLASSIFICATION OFFICE

To Ted Bittner
Ricky Rodrigue

From Shannon Phelps

Date October 5, 1992

Subj RCM/GROUT LOOP CLEANUP

DATA

Volume of RCM tub	40 cf
Volume of Grout Loop (3½ I D x 200')	13 cf
Usable volume of half crate	38 cf

BACKGROUND

Wash-up will be typically required at the end of processing a batch of materials. A batch is the contents of either Batch Tanks 4/5 or 6/7. A normal batch is equivalent to approximately 32 half crates. Times between the processing of batches is planned to be approximately 3 hours. The wash-up material will be pumped into half crates at the wash-up station for removing the cemented solids from the system. During the planned maintenance/downtime period, the wash-up slurry will be allowed to gravity settle separating the water phase from the solids. The liquid phase will be decanted and pumped back to the holding batch tanks located adjacent to the wash station and processed in the subsequent batch.

NORMAL WASH-UP

During normal wash-up, the RCM tub level will be almost empty (say 10 cf of product). The volume of solids would be 10 cf (tub) + 13 cf (grout loop), or 23 cf.

Approximately two RCM tub volumes, or 80 cf, of brine/process water will be required to clean up the RCM and grout loop. Thus the total volume needed for a normal wash-up is 23 cf (solids) plus 80 cf (liquid) or 2½ half crates. A large majority of the flushing water will come from the two batch holding tanks. The frequency of normal wash-up will be dependant on cement build-up in the RCM and the grout loop. This will be monitored by visual inspection of RCM and monitoring pressure in the grout loop. Process water will be used at the end of the cleanup cycle for final rinsate. Process water will be stored in the process water tank. Any waters used will be pumped to the wash station and returned to the batch tanks.

We will determine the correct time interval and intensity for wash-up during testing with the actual waste material.

September 16, 1992

TO: Ted Bittner
FROM: Brian Sheets
SUBJ: Option 2 RCM Wash System

The purpose of this system is to facilitate a simpler operation for RCM wash-up. See attached sketch.

Proposed System

1. Build a 8' x 44' secondary containment with 6" high side walls just north of batch tank containment.
2. Place 6 half crates in line on west side of secondary containment.
3. Build 2" discharge manifold to fill each bladder in half crates individually.
4. Build 2" vent manifold to vent each bladder in half crates to passive HEPA filter individually
5. Pump RCM wash water to half crates until clean, then divert final rinse to batch tank system.
6. As half crates become full, allow solids to settle and decant free liquid to batch tanks system as needed
7. Remove full half crates with fork lift as needed



Brian Sheets

cc: Ricky Rodrigue

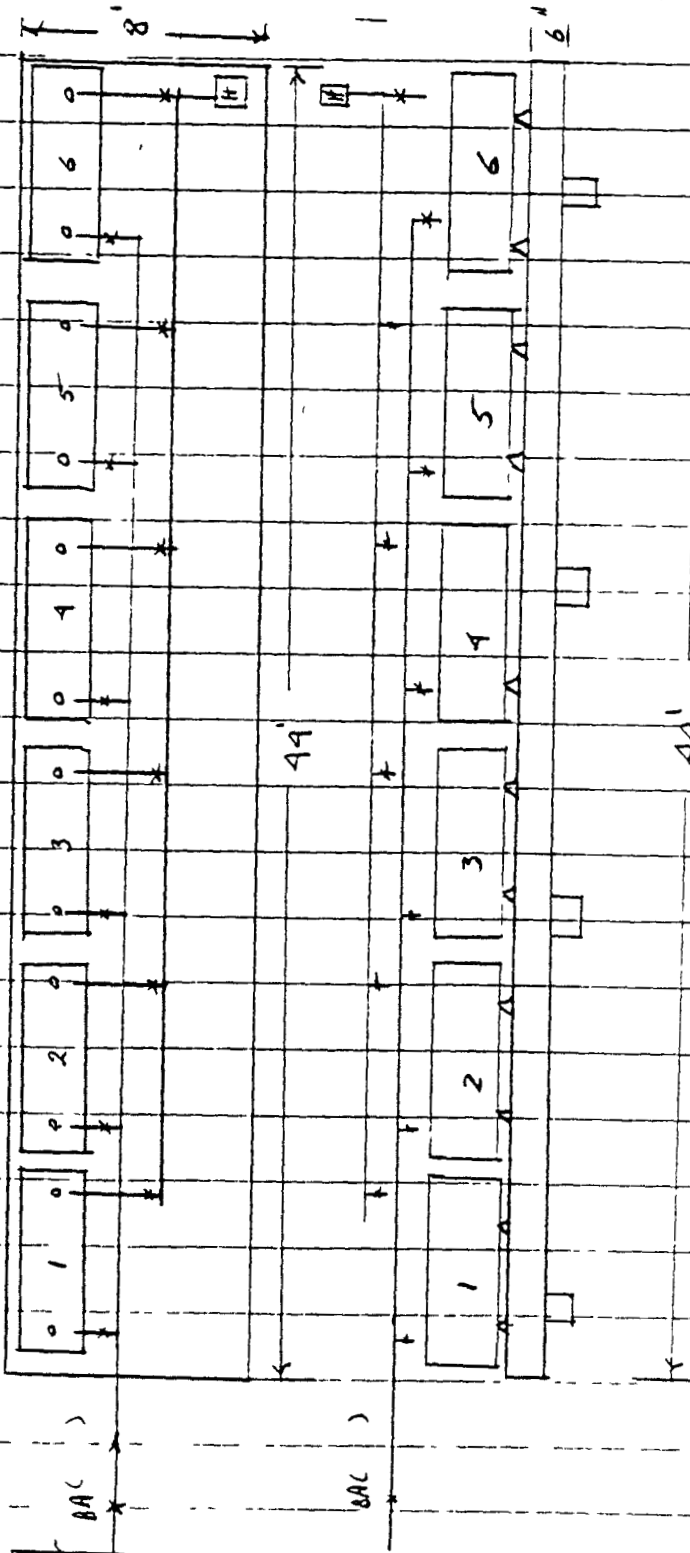
p sheets(9-16-92) mem

ADMIN REC -

DOCUMENT CLASSIFICATION
REVIEW / MINOR-ER
CLASSIFICATION OFFICE

waste crate confinement 750 AAD Nth of Butch tanks 4, 5, 6, 7

from wash



2' X 4' X 7' = hull crate

9/15/92

Bin H *[Signature]*

ADMIN RECORD